

10/092,773

pressure at said sealed chamber outlet to said second switch.

Claim 11 (currently amended): A flow sensor for use in an instrument comprising:

- (a) first and second differential pressure switches;
- (b) a sealed chamber comprising:
 - (i) ~~an only one~~ inlet and an outlet through which a fluid can must flow in its entirety, said chamber having only one path between said only one inlet and said outlet;
 - (ii) a flow restrictor in said only one inlet and a flow restrictor in said outlet; and
 - (iii) means for transferring the pressure in said sealed chamber to said first and second differential pressure switches.

Claim 16 (currently amended): A flow sensor for use in an instrument comprising:

a sealed chamber comprising:

- (i) ~~an only one~~ inlet, ~~and an outlet through which a fluid must flow in its entirety, and only one path between said only one inlet and said outlet through which said fluid can flow;~~
- (ii) a flow restrictor in said only one inlet and a flow restrictor in said outlet; and
- (iii) means for transferring the pressure in said sealed chamber to first and second differential pressure switches.

Claim 19 (currently amended): In combination:

- (A) an instrument comprising an enclosure having an opening through which a fluid can flow;
- (B) a flow sensor comprising:
 - (i) first and second differential pressure switches; and
 - (ii) a sealed chamber in said opening, said chamber having only one inlet, an outlet and only one path

10/092,773

between said only one inlet and said outlet through which said fluid can flow and comprising:

- (a) first and second restrictors through which said fluid can ~~must~~ flow in ~~its entirety~~; and
- (b) means for transferring the pressure in said sealed chamber to said first and second differential pressure switches, the pressure in said enclosure to said first switch and the pressure at said sealed chamber outlet to said second switch.

Claim 26 (currently amended): An instrument comprising:

(a) an enclosure having an opening through which a fluid can flow;

(b) a first pressure transducer in said enclosure and a second pressure transducer outside of said enclosure;

(c) a sealed chamber in said opening, said chamber having only one inlet, an outlet and only one path between said only one inlet and said outlet through which said fluid can flow and comprising:

- (i) first and second flow restrictors through which said fluid can ~~must~~ flow in ~~its entirety~~;
- (ii) means for transferring the pressure in said sealed chamber to said first and second pressure transducers; and

(d) means connected to said first and second pressure transducers for calculating for any given rate of flow of said fluid through said sealed chamber the flow through said outlet.

Claim 28 (currently amended): A method for detecting the flow of a fluid through an enclosure having an outlet device through which said fluid can flow, said outlet device having a sealed chamber with only one inlet, an outlet, only one path between said only one inlet and said outlet through which said fluid can flow and a flow restrictor in said only one inlet and a flow restrictor in said outlet ~~first and second restrictors~~

10/092,773

through which said fluid can ~~must~~ flow ~~in its entirety~~, said method comprising:

transferring the pressure in said sealed chamber to first and second differential pressure switches;

transferring the pressure in said enclosure to said first switch; and

transferring the pressure outside of said enclosure to said second switch.

Claim 29 (currently amended): A method for detecting a blockage in the outlet of a purged enclosure having an outlet monitoring device in said outlet, said outlet monitoring device having a sealed chamber with only one inlet, an outlet, only one path between said only one inlet and said outlet and a flow restrictor in said only one inlet and a flow restrictor in said outlet ~~first and second restrictors~~ through which a purging fluid can ~~must~~ flow ~~in its entirety~~, said method comprising:

flowing said purging fluid into said enclosure;

monitoring at a first differential pressure switch the difference in pressure between the pressure in said enclosure and said sealed chamber that results from said purging fluid flow through said first restrictor of said outlet device;

monitoring at a second differential pressure switch the difference in pressure between said sealed chamber pressure and the pressure outside of said enclosure that results from said purging fluid flow through said second restrictor of said outlet device; and

determining that either said first or second restrictors are blocked when said second or said first switches, respectively, are open when said purging fluid flows.

REMARKS

Applicant has amended all of the presently pending independent claims to recite in each of them that the sealed chamber has only one inlet and only one path between the only one inlet and the outlet through which the fluid can flow. This is shown in Figs. 2, 5-8 of the application as filed and